Special Issue

Physiology and Molecular Ecology of Ratoon Rice

Message from the Guest Editors

Ratoon rice is a cropping system, in which we get the promising production of the additional crop from the stubble after the harvest of the main crop. Besides of high grain yields, improved grain quality and better economic efficiency, ratoon rice shows resource efficient, labor saving and environmentally friendly. Since ratoon rice is taking advantage of regeneration characteristics of dormant axillary buds, ratoon ability has been proved to be fundamental to the yield of ratoon season, which depends the fine regulation of signaling network from both the endogenous phytohormone and environmental factors. Recently, stubble quality is established as a guiding indicator to guarantee substantial ratoon-season yield. Several studies have revealed that stubble height, nitrogen fertilization and dry-wet alternate irrigation would significantly determine the ratoon ability and following ratoon-season growth, which all contribute to stubble quality.

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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